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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,624	09/08/2003	Christopher Vitello	200207120-1	1542
22879	7590 10/23/2006		EXAMINER	
HEWLETT PACKARD COMPANY			NGUYEN, TAI V	
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INTELLECTUAL PROPERTY ADMINISTRATION			ART UNIT	PAPER NUMBER
FORT COLLINS. CO 80527-2400			3729	

DATE MAILED: 10/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application No.	Applicant(s)
		10/657,624	VITELLO ET AL.
	Office Action Summary	Examiner	Art Unit
		Tai Van Nguyen	3729
Period fo	The MAILING DATE of this communication apports. The mail of the communication apports.	pears on the cover sheet with the	correspondence address
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailine and patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status			
2a)□	Responsive to communication(s) filed on <u>08 S</u> This action is FINAL . 2b) This Since this application is in condition for alloware closed in accordance with the practice under the second sec	s action is non-final. Ince except for formal matters, pr	
Dispositi	on of Claims		
5)⊠ 6)⊠ 7)⊠ 8)□	Claim(s) <u>1-34</u> is/are pending in the application 4a) Of the above claim(s) <u>11-34</u> is/are withdraw Claim(s) <u>8-10</u> is/are allowed. Claim(s) <u>1-6</u> is/are rejected. Claim(s) <u>7</u> is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.	
Applicati	on Papers		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected to be specification.	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).
Priority (ınder 35 U.S.C. § 119		
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv tu (PCT Rule 17.2(a)).	tion No red in this National Stage
2) Notice	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date <u>9/803</u> .	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal (6) Other:	Pate

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DETAILED ACTION

Election/Restrictions

1. Applicants' amendment filed on 9/8/2006 has been fully considered and made of record.

2. Claims 11-34 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention Group II, III and IV, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 9/8/2006.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seemann III, et al (US 5,958,325) in view of Lim (US 4,690,682).

As applied to claims 1 and 3, Seemann et al disclose a method of creating an internal channel of a fluid-ejection device, the method comprising: encapsulating (84, 86, Fig. 8) a channel core (82) in an element of the fluid-ejection as read feed groove (14) device that corresponds to the internal channel (see sequence Fig. 8 and 10).

However, Seemann does not disclose dissolving at least a portion of the channel core. Lim teaches dissolving at least a portion of the channel core (column 5, lines 35-

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65+). It would have been obvious to one of ordinary skill in the art at this time the invention was made to have modified the method of Seemann by including dissolving of the channel core, as taught by Lim, to positively provide an improvered method of controlling the pore size of microcapsule membrane (column 2, lines 67-68).

As applied to claim 2, Lim discloses wherein encapsulating a channel core in an element of the fluid-ejection device comprises encapsulating a water-soluble channel core in the element (column 5, lines 35-45+).

As applied to claim 4, Lim discloses the composite channel core comprises a soluble material and insoluble particles dispersed within the soluble material (column 5, lines 43-55).

As applied to claim 5, Seemann et al disclose the encapsulating (84, 86) a channel core (82) in an element of the fluid-ejection device comprises molding a material of the element around the channel core (see column 3, lines 61-65+).

As applied to claim 6, Seemann et al disclose encapsulating a channel core in an element of the fluid-ejection device comprises: disposing the channel core within a mold cavity; and injecting a material of the element into the mold cavity (column 4, lines 40-55).

Allowable Subject Matter

5. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.



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Reasons for Allowance: the prior art does not teach all of the limitations of the claimed invention including:

In claim 8:

- forming a channel core that corresponds to the internal channel from a soluble material;
- disposing the channel core within a mold cavity;
- a material of an element of the fluid-ejection device into the mold cavity so as to encapsulate the channel core.
- 6. Claims 8-10 are allowed.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai Van Nguyen whose telephone number is 571-272-4567. The examiner can normally be reached on M-F (7:30 A.M 4:30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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TN. October 11, 2006

A. DEXTER TUGBANG PRIMARY EXAMINER